

Module Title: Fluid Mechanics II

Module Credit: 3

References: Introduction to Fluid Mechanics, FOX and McDONALD'S, 9th Edition

Assessments

45% Midterm

45% Final Exam

10% Exercise

Week	Subject
1	<i>Momentum Equation for Frictionless Flow: Euler's Equation</i>
2	<i>Bernoulli Equation: Integration of Euler's Equation Along a Streamline for Steady Flow</i>
3	<i>The Bernoulli Equation Interpreted as an Energy Equation</i>
4	<i>Energy Grade Line and Hydraulic Grade Line</i>
5	<i>Irrotational Flow</i>
6	<i>Fully Developed Laminar Flow</i>
7	FLOW IN PIPES AND DUCTS
8	FLOW MEASUREMENT
9	<i>The Boundary-Layer Concept</i>
10	FLUID FLOW ABOUT IMMERSED BODIES
11	<i>Flow in open channels, Basic Concepts and Definitions</i>
12	<i>Energy Equation for Open-Channel Flows, Localized Effect of Area Change (Frictionless Flow)</i>
13	<i>The Hydraulic Jump, Steady Uniform Flow</i>
14	<i>Flow with Gradually Varying Depth, Discharge Measurement Using Weirs</i>
15	<i>Turbomachinery Analysis, Pumps, Fans, and Blowers</i>
16	<i>Positive Displacement Pumps, Hydraulic Turbines, Propellers and Wind-Power Machines</i>